

Name: \_\_\_\_\_

**at1113exam: Expand, factor, and solve quadratics (v219)**

1. Expand the following expression into standard form.

$$(9x - 2)(9x + 2)$$

2. Solve the equation.

$$(3x - 4)(5x - 2) = 0$$

3. Expand the following expression into standard form.

$$(9x + 7)(4x + 3)$$

4. Expand the following expression into standard form.

$$(8x - 9)^2$$

5. Solve the equation.

$$8x^2 - 23x + 12 = 3x^2 + 4x + 2$$

6. Factor the expression.

$$x^2 + x - 6$$

7. Solve the equation with factoring by grouping.

$$18x^2 + 15x + 12x + 10 = 0$$

8. Factor the expression.

$$49x^2 - 9$$